

M 5.9, COSTA RICA

Origin Time: Wed 2009-03-11 21:03:59 UTC

Location: 8.51°N 83.24°W Depth: 17 km

PAGER Version 2

Created: 5 hrs, 35 mins after earthquake

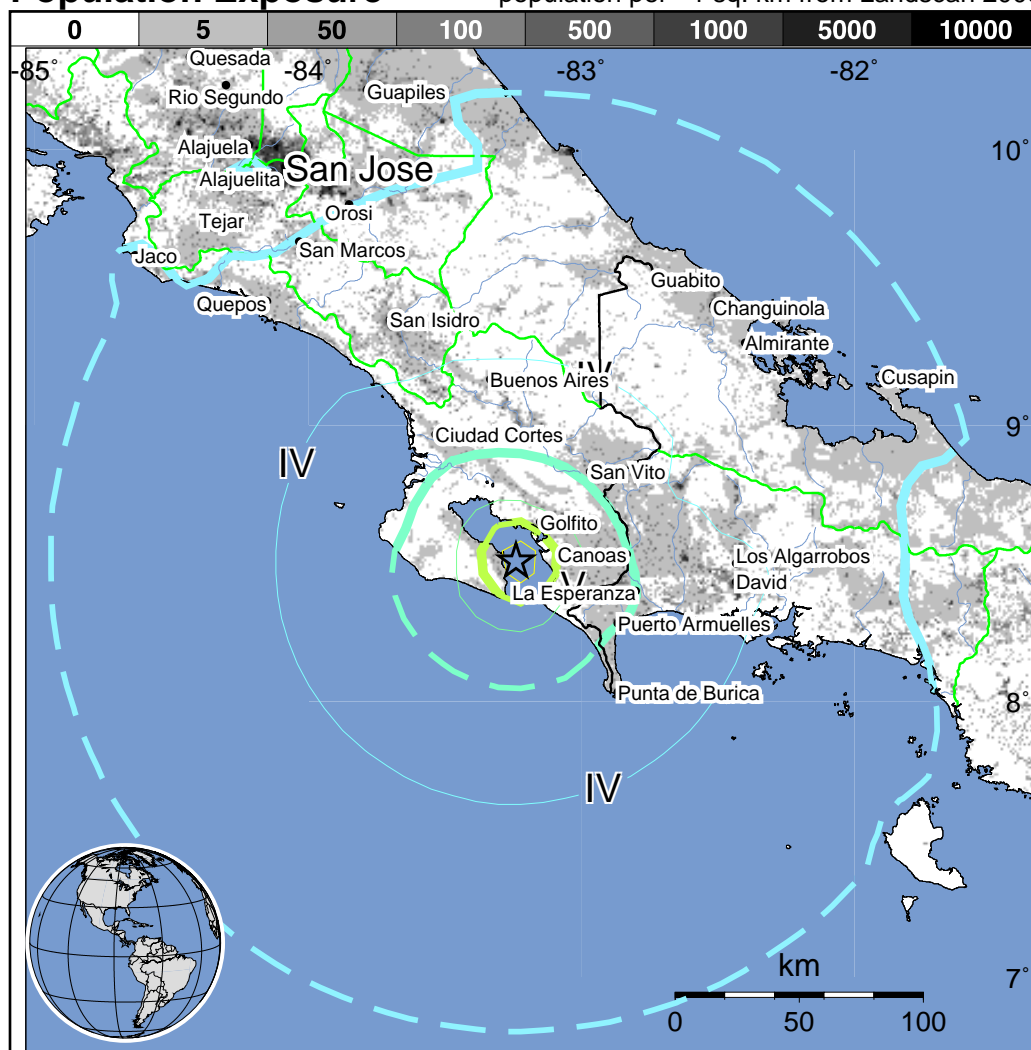
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	2,093k*	1,991k	132k	5k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan 2006



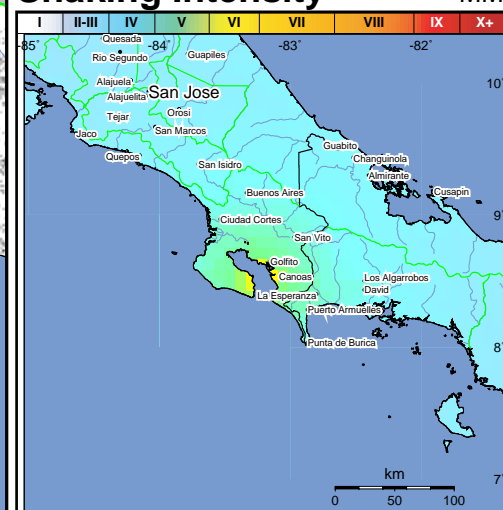
Selected City Exposure

MMI City	Population
V Golfito	6k
V Corredor	7k
V Finca Blanco Numero Uno	1k
V Progreso	2k
V Finca Corredor	1k
V Puerto Armuelles	18k
IV David	82k
IV Puerto Limon	63k
IV Alajuela	47k
IV San Jose	335k
III San Francisco	55k

bold cities appear on map (k = x1000)

Shaking Intensity

MMI



Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 6.5 earthquake occurred in the Costa Rica region 286 km northwest of the location of this earthquake on April 14, 1973 (UTC), with estimated population exposures of 9,000 at intensity VIII and 155,000 at intensity VII, resulting in an estimated 26 fatalities. On April 22, 1991 (UTC), a magnitude 7.6 earthquake and tsunami occurred near the Valle de la Estrella, Costa Rica, region 118 km north of the location of this earthquake, with estimated population exposures of 213,000 at intensity VII and 1,810,000 at intensity VI, resulting in an estimated 75 fatalities. Recent earthquakes in this area have caused, landslides and liquefaction that may have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.

<http://earthquake.usgs.gov/pager>

Event ID: us2009ebbr